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(72) Inventors: **CHU, Albert, Bonyao**; 1910 Morgan Avenue, Morgan Hill, CA 95037 (US). **JASWA, Vijay**; 19251 Valle Vista Drive, Saratoga, CA 95070 (US). **HONG, Jack, L.**; 22382 McClellan Road, Cupertino, CA 95014 (US).

(74) Agents: **SWARTZ, Douglas, W.** et al.; Sheridan Ross P.C., Suite 1200, 1560 Broadway, Denver, CO 80202-5141 (US).

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(71) Applicant: **AVAYA TECHNOLOGY CORPORATION** [US/US]; 211 Mount Airy Road, Basking Ridge, NJ 07920 (US).

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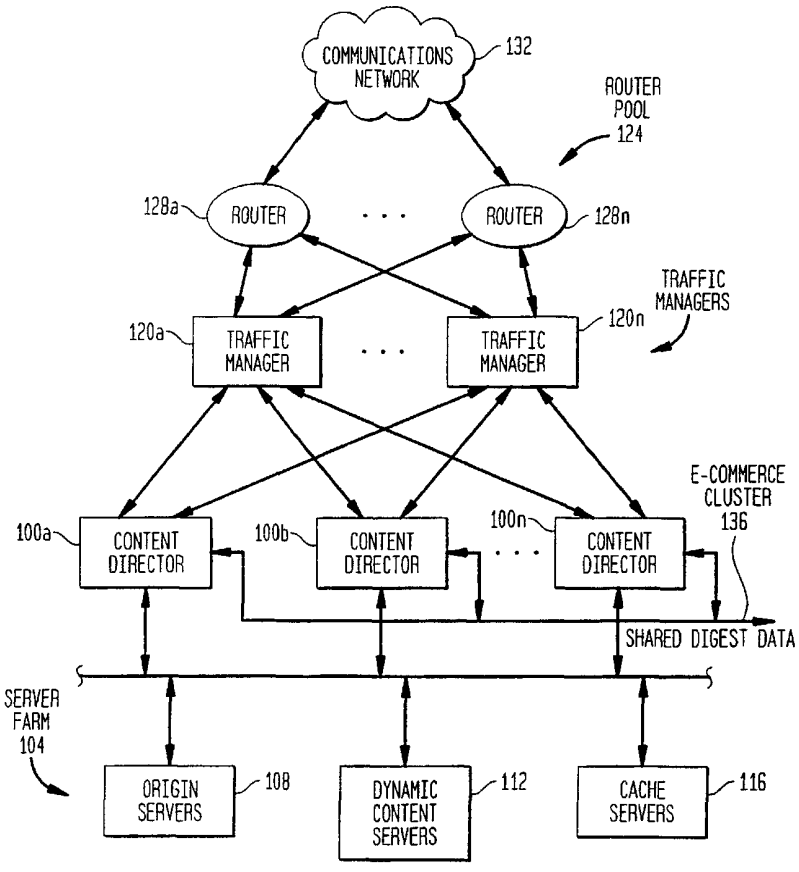
[Continued on next page]

(54) Title: INTELLIGENT DEMAND DRIVEN RECOGNITION OF URL OBJECTS IN CONNECTION ORIENTED TRANSACTIONS



(57) Abstract: The present invention is directed to a network switch that determines when specific content is hot and directs flow to one or more cache servers. The architecture of the present invention can include a cache and a digest generator to store predetermined objects in the cache based on the digest generated by the digest generator.

WO 02/13479 A3

patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

Ir ational Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/06 H04L12/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 69890 A (SPEEDERA NETWORKS INC) 20 September 2001 (2001-09-20)	1-11,13, 14, 16-20, 22,23, 25-39
A	the whole document	12,15, 21,24

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
25 February 2002	14/03/2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Rosken, W

3

Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	ALTEON WEBSYSTEMS: "VIRTUAL MATRIX ARCHITECTURE: SCALING WEB SERVICES FOR PERFORMANCE AND CAPACITY" WHITE PAPER, 'Online! April 2000 (2000-04), pages 0-12, XP002191242 Retrieved from the Internet: <URL:http://www.nortelnetworks.com/products/library/collateral/intel_int/vma_white_paper.pdf> 'retrieved on 2002-02-22!	1,3-5,7, 8,14,16, 17,23, 25,26, 28-30, 32,33, 36,37
Y	the whole document	2,9,18, 27,38
A		2,6,9, 11-13, 18,22, 27,31, 34,35, 38,39

X	APOSTOLOPOULOS G ET AL: "Design, implementation and performance of a content-based switch" INFOCOM 2000. NINETEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. PROCEEDINGS. IEEE TEL AVIV, ISRAEL 26-30 MARCH 2000, PISCATAWAY, NJ, USA,IEEE, US, 26 March 2000 (2000-03-26), pages 1117-1126, XP010376047 ISBN: 0-7803-5880-5	1,4,7,8, 14,16, 17,23, 25,26, 29, 32-34, 36,37
A	the whole document	2,3,5,6, 9-13,15, 18-22, 24,27, 28,30, 31,35, 38,39

Y	LIEBMANN LENNY: "Load Balancing: Where the Action Is" NETWORKMAGAZINE.COM, 'Online! 3 January 2000 (2000-01-03), XP002191243 Retrieved from the Internet: <URL:http://www.networkmagazine.com/article/NMG20000426S0014/4> 'retrieved on 2002-02-22! the whole document	2,9,18, 27,38

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0169890 A	20-09-2001	US 2001034792 A1	25-10-2001
		AU 5081601 A	24-09-2001
		WO 0169890 A1	20-09-2001